



DANIEL MIRNY—THE TECH

**The Presidential Motorcade drives past the Whitehead Institute on Monday.** President Barack Obama and First Lady Michelle Obama stopped at Area Four for lunch following the opening of the new Edward M. Kennedy Institute for the United States Senate in Boston.

# Prosecution and defense rest in Dzhokhar Tsarnaev trial

## Closing arguments coming next Monday April 6

By Drew Bent and Ray Wang  
ASSOCIATE NEWS EDITORS

After calling just four witnesses, the defense in the Boston Marathon bombing trial rested its case on Tuesday, clearing the way for closing arguments to be held next Monday, April 6. Closing statements will be followed by the second phase of the trial — the penalty phase — if defendant Dzhokhar Tsarnaev is convicted. Federal prosecutors rested their case on Monday after bringing 92 witnesses to the stand over

15 days. The prosecution called its final witnesses to describe the bombing victims' injuries in graphic detail, which left several jurors in tears. The last witness to testify for the government was the Massachusetts chief medical examiner, Henry Nields, who for 30 minutes described Martin Richards's various wounds and presented his autopsy photos to the jurors. Richards, 8, was the youngest of the three people to die in the bombings. According to Nields, Rich-

ards quickly bled to death after the largest artery in his body, the aorta, was cut through. His left forearm was almost completely severed, and his spinal cord was cut by a large piece of metal that exited through his back. Many of his internal organs were severely lacerated or ruptured, and he was eviscerated through a large hole in his left abdomen. For many jurors, the photos were too much. Several cried, and others held their faces in

Tsarnaev Trial, Page 14

# Three tickets debate in UA Pres. Election

## Candidates answers questions from The Tech and audience Tuesday night

By Patricia Z. Dominguez  
NEWS EDITOR

Three tickets spoke at the annual Undergraduate Association president/vice-president debate, co-hosted by The Tech and the UA, on Tuesday evening. The candidates for president and vice president were Matthew Davis '16 and Sophia Liu '17, Laila Shehata '16 and Robert Mahari '17, and Daniel Wang '16 and Siobhan Rigby '16. Each ticket spoke on topics ranging from dorm security measures to sexual assault and mental health, as well as their respective platforms. Also addressed during the debate was the recent UA Judicial Board decision regarding Lil B's visit to

MIT last year. Sexual assault issues on campus The candidates were asked what the UA has been doing to address the problem of sexual assault on campus. All tickets discussed the UA's involvement with the Title IX Student Working Group and the It's On Us campaign that took place on campus earlier this school year. Liu said that the UA has not yet openly acknowledged sexual assault as a big issue on campus and needs to do so. Mahari spoke about his past experience working with the presi-

UA Debate, Page 13

# Recall motion for UA president fails

## Sharma says move by councillors was due to miscommunication

By Austin Hess, Patricia Z. Dominguez, and William Navarre  
EDITORS

A vote to launch an undergraduate-wide recall election of Undergraduate Association President Shruti Sharma '15 narrowly failed to pass in the regularly scheduled UA Council meeting on Wednesday, which at points bordered on disorder. In a call for impeachment emailed out to the UA Council Sunday, four council members accused Sharma of multiple constitutional violations, including improperly authorizing UA funds to pay for a visit by rapper Lil

B and using UA funds for personal expenses. A vote for impeachment could not be held at the meeting because the UA Judicial Board has thus far been unable to decide whether the charges against her warranted impeachment. At the meeting, council members moved to hold a recall vote in place of impeaching her. Had the motion passed, undergraduates would have voted on whether Sharma could remain UA president. Voted on by secret ballot, the motion failed to garner the 16 yes votes needed to pass — 14 voted in favor, three against,

UA Meeting, Page 3

# UA President says that confusion led to controversial Lil B payment

By William Navarre  
NEWS EDITOR

The Undergraduate Association Judicial Board issued a decision last week which found that UA President Shruti Sharma '15 had authorized a "constitutionally inappropriate" transaction when she transferred an unbudgeted \$12,500 to fund Lil B's November visit to MIT. The rapper had given a 90-minute talk to a packed audience in 32-123, sharing his thoughts on everything from racism to photosynthesis. Sharma said she was under time pressure to authorize the funds amid confusion over whether MIT was already under contract to pay Lil B. "I do apologize for signing off," she said. "It was a murky situation. I think we've all really learned from it"

She said she agreed with the Judicial Board's recommendations for more reviews and better recordkeeping. Judicial Board chairman John W. Halloran '15 emailed the ruling to councillors on March 24 after treasurer Ryan A. McDermott '15 had discussed the expenditure with Council as an emergency item at a March 18 meeting. Several councillors at the meeting had requested a constitutional ruling from the Judicial Board, and a straw poll indicated that Council was not comfortable adding a line item to cover the expense until checks on similar behavior were implemented. Councillors seemed especially upset that they weren't informed earlier. It was confusion that prevented Sharma bringing the issue before

LilB, Page 3



ALEXANDER C. BOST—THE TECH

**Apollo 11 astronaut Michael Collins answers an audience member's question** during a discussion about lessons learned from his career on Wednesday afternoon in 32-123. Collins, who piloted the command module during the first moon landing, drew frequent laughs as he shared his thoughts on a variety of topics during the two-hour event.

**WHAT TO EXPECT FROM THE 2015 BOSTON RED SOX** Much-needed pop added to strong batting lineup. **SPORTS, p. 15**

**HOSED AND HOSPITALIZED** Mental health. **CAMPUS LIFE, p. 11.** Living with POTS. **CAMPUS LIFE, p. 12** **EAST V. WEST CAMPUS** 1950s edition. **CAMPUS LIFE, p. 12**



**THE LATEST TEEN FLICK TO SKIP** *Insurgent* is yet another disappointing dystopian adaptation. **ARTS, p. 10**

**GET NERD SNIPED BY THESE MATH PUZZLES** A new problem column in case you've run out of psets. **FUN, p. 7**

**SECTIONS** Weather. . . . .2 Opinion. . . . .4 Fun Pages. . . . .6 Arts. . . . .10 Campus Life. . . .11 Sports. . . . .15



# Plea for UAP recall was two votes short

*Sharma says she tried to address JudBoard’s recommendations*

**UA Meeting**, from Page 1

and one abstained. The recall was apparently an attempt to at least temporarily remove Sharma from office until the recall vote despite the council’s inability to vote on impeachment.

UA Judicial Board Chair John W. Halloran ’15 said that the Judicial Board, which currently has only two members, has been unable to come to an agreement on whether the allegations against Sharma would merit impeachment.

He said that the other member Moriel W. Levy ’17 was “appointed by Shruti and has a close personal relationship with Shruti.” He said that he doesn’t believe that the potential conflict of interest would influence her decisions, but “only that it may be a factor in the speed in which we may deliberate.”

Sharma said she believes the motion for a recall election stemmed from “some miscommunication about the Lil B event,” and said that she had been hoping to address some of the concerns at today’s meeting.

“We did address JudBoard’s recommendations at the meeting, and I’m reaching out and making sure that the situation is clarified.”

The recall motion came after Halloran said that the board was not yet prepared to rule on whether all the violations were serious enough to warrant impeachment.

Though most language in the UA constitution lists a three-quarters majority — 14 of the 18 mem-

bers present Wednesday — as the highest threshold for passing any measure, the 16-person requirement for the recall is a holdover in the language from when the UA council was larger, according to UA council member Obasi Onuoha ’17.

A motion to amend the constitution to change the 16-person requirement to a three-fourths majority was put forth and will be up for a vote at the next regularly scheduled UA meeting in two weeks.

Halloran told the council at the beginning of the meeting that the two-person board, whose constitutionally-mandated third member had previously resigned, could not reach an agreement on whether all the impeachment charges were constitutional violations. It was also unclear whether an incomplete two-person board would have the standing to issue rulings.

Halloran recommended the appointment of a third member, but said the normal process of appointment by the UA president would cause a conflict of interest given that the new appointee would likely be the tie-breaking vote on whether the impeachment could proceed to a council vote.

The council improvised and debated several alternative methods of appointing the third member. There was an agreement to send out applications to all undergraduates for the position and then hold an interview process for interested applicants. The interviews would be open to all UA Council members.

# JudBoard finds funding of Lil B lecture ‘inappropriate’

*UA President says situation was ‘murky’ but calls it a learning experience and hopes to move forward*

**LiIB**, from Page 1

Council, she told *The Tech* in an interview; she said that she wanted to get a better understanding of the facts before getting Council involved. She said she was working on the fact-gathering process with the UA’s advisor and director of the Student Activities Office, Leah Flynn.

“Leah and I were working on this, and honestly, that is what was taking the longest was that we were working on it together.”

McDermott said at the meeting that Sharma had signed off on the expense herself and that there had been no communication between himself and Sharma. He said in an email to *The Tech* that he did not know that the UA had funded rapper Lil B’s lecture until he ran a transaction report on the UA’s umbrella account in January.

Sharma had authorized the expenditure after a student falsely claiming to be a member of the Black Student Union (BSU) requested the funds from the UA. The student, in fact, had only signed up with the BSU at an activities midway.

Sharma was mostly quiet during Council’s discussion, but she did refer to the “time sensitivity” of the transaction and said “it was to be brought to council, but ... we decided to go with our discretionary budget.”

In an interview with *The Tech*, she said that she was using her constitutional authority as a financial signatory to distribute funds in an emergency after being told that MIT

was already under contract to pay Lil B, who could have sued if he wasn’t paid.

“I was trying to be helpful,” Sharma said. “I wanted to do something that would make it easier and the way it was presented was almost like SAO also wanted me to sign this ... it seemed like I needed to sign it that day.”

Since there is no written record of the date Sharma signed the authorization, the Judicial Board’s decision said that it could not be determined whether MIT was already under contract with Lil B at the time. Sharma said in an interview, however, that MIT was in fact under the contract at the time.

The Judicial Board found that the \$12,500 expenditure exceeded the amount allocated to the Officer’s Discretionary Fund (\$5,000 under the fall 2014 budget) and was thus “constitutionally inappropriate ... regardless of [Sharma’s] financial signatory status or a need for executive expediency.”

Though the Board acknowledged that there were “extenuating circumstances” surrounding the authorization, it said that the Constitution only permits UA officers to “act in lieu of Council” under certain conditions; in particular, decisions must be reached with “a majority of all officers voting in favor” and must be “subject to subsequent review by the Council at its next meeting.”

“First of all, it is unclear if the rest of the Officers were notified of the transfer,” the Judicial Board wrote in its decision. “Secondly ... the Presi-

dent should have notified the Council at the next meeting.”

“The President has a duty to ‘make a good faith effort to keep the Council informed of all pertinent matters,’” the Judicial Board wrote, citing the UA Constitution and writing that “a non-budgeted \$12,500 expense should certainly be considered pertinent.”

“This failure to notify Council sooner was not in compliance with the listed duties of the UA President in the Constitution.”

Sharma describes the entire incident as a learning experience.

“I think we’ve all taken responsibility for it,” she said. “The BSU has taken responsibility for it. The SAO now has new regulations on how you get financial transactions and contracts signed. Give more checks and balances on the SAO side, too. And now the UA will have more checks and balances.”

Sharma was referring to the recommendations issued by the Judicial Board in its decision. The Judicial Board called for a monthly review of UA accounts by the UA principal officers as well as records of votes on large financial transactions. The board also suggested considering changes to the UA’s constitution or bylaws to “prevent similar events from occurring in the future.”

According to the UA’s website, about a third of its funds are derived from a portion of the MIT student-life fee collected along with tuition from all MIT students, while most of the remaining two-thirds come out of the General Institute Budget.

COUNCIL  
FOR THE  
ARTS AT MIT



ARTS GRANTS PROGRAM:  
NEXT DEADLINE: EXTENDED TO APRIL 10, 2015

For more information, visit: <http://arts.mit.edu/camit-grants-program/>

All currently  
registered  
MIT  
undergraduate  
and graduate  
students, MIT  
faculty and staff  
may apply

Contact:  
[cohen@media.mit.edu](mailto:cohen@media.mit.edu)



## GUEST COLUMN

# Gender-inclusive housing at MIT

*Option should exist to choose roommates regardless of sex or gender identity*

While the phrase “gender-inclusive housing” is tossed around somewhat regularly, many people are still unsure about what it exactly means or why, frankly, we care about it at all.

**Many universities across the country have already adopted gender-inclusive or gender-neutral policies.**

It is important to first of all clarify what gender-inclusive housing is not. Gender-inclusive housing is not some strange, nebulous concept that would horribly complicate housing procedures; it is not an excuse for couples of different genders to room together; and it does not mean that students will find themselves stuck with a roommate whose gender makes them feel uncomfortable. On the contrary, gender-inclusive housing is an opt-in, completely optional system that not only simplifies housing procedures, but also helps make students feel more comfortable across the board.

So what, then, is gender-inclusive housing? Simply put, *it provides the option for students to choose their roommates regardless of sex or gender identity.*

Rather than complicating the rooming process, gender-inclusive housing in fact re-

moves some of the constraints that currently cause problems for many students. It simply provides students with an option; anyone who does not feel comfortable participating in gender-inclusive housing can simply choose not to opt in.

But even if the majority of students would choose not to participate in gender-inclusive housing, the availability of this option would be important to many different students, for many different reasons. One demographic includes students who identify on the trans\* spectrum. These students may have a different gender identity from the gender marker on their admissions forms (which is what Housing currently uses to allow roommate selection), and they may desire a roommate of the same gender with which they identify.

Advocating for a narrower policy that would allow students to room with others of the same gender identity, rather than gender marker, is still far from a sufficient solution. For students who identify outside of the gender binary, there may not be another student in their dorm who shares their gender identity, which makes finding a roommate of a “matching” gender rather difficult.

Further, there are cisgender students (whose gender identities match the genders they were assigned at birth) who may feel more comfortable rooming with students of a different gender identity. Some gay students, for example, may prefer rooming with someone of a different gender identity.

Other students may prefer gender-inclusive housing for reasons completely unrelated to gender identity or sexuality.

No one should feel excluded or uncomfortable on the basis of gender identity. Several dorms here at MIT, including MacGregor House, East Campus and Senior House, have already adopted gender-inclusive housing policies. If MIT as a whole were to officially include gender-inclusivity in its overarching housing policies, then all admitted and current students would know that MIT's housing system is one that will welcome them.

**What is gender-inclusive housing? Simply put, it provides the option for students to choose their roommates regardless of sex or gender identity.**

Many universities across the country have already adopted gender-inclusive or gender-neutral policies, including Harvard, Princeton, Boston University, and the University of Pennsylvania. These policies range from case-by-case request-based systems, to the designation of specific spaces in residence halls as gender-neutral, to a universally-available gender-neutral option. Rather than trailing behind, MIT should join these leaders and open the option of gender-inclusive housing to all residence halls and class years.

The push for gender-inclusive housing at MIT began over a year ago with Cory Her-

nandez '14, and it has already gained significant momentum. Dorm presidents from all of the Dormitory Council dorms have signed a statement in support of gender-inclusive housing. Dormitory Council representatives have been working closely with administrators in the Housing office and LGBT services to discuss the possibility of MIT's gender-inclusive policy and its implementation. However, a lack of sufficient meetings, combined with lingering questions about what gender-inclusive housing is and why it is important, have delayed the adoption of the policy.

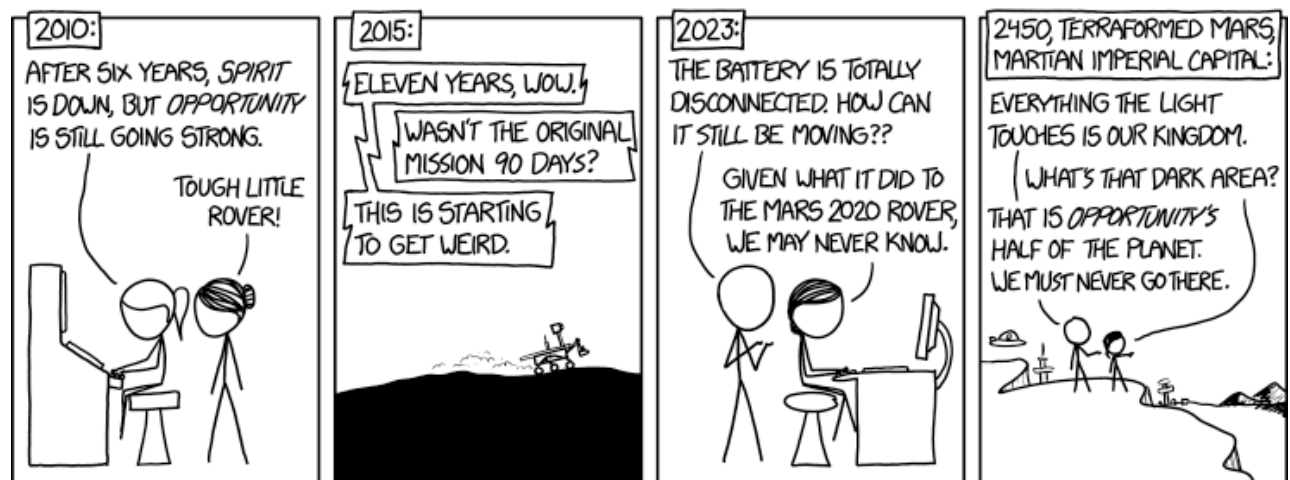
The momentum may be building for

gender-inclusive housing, but there is still some distance to go before an Institute-wide policy becomes a reality. All members of our community can join the conversation by sending statements of support and letting key decision-makers know that MIT cares about this issue.

*This piece was co-written by some of the student leaders advocating for gender-neutral housing on campus. They live in several different dorms and include Jean Bauer, Matthew Davis, Margaret Lattanzi-Silveus, Eli Sadovnick, Lily Seropian, and Phoebe Whitwell. They can be reached at [gih-discuss@mit.edu](mailto:gih-discuss@mit.edu).*



by Randall Munroe



We all remember those famous first words spoken by an astronaut on the surface of Mars: "That's one small step for a man, one giant leap for mankind." But what if the words were "That's one small step for a man, one giant leap for mankind. SHIT LOOK OUT IT'S GOT SOME KIND OF DRILL! Get back to the ... [unintelligible] ... [signal lost]"

by Steve Sullivan



by Steve Sullivan







ALEXANDER C. BOST—THE TECH

**Building 12 as seen from Building 24 on Sunday, March 29.** The building, about one quarter of the way through demolition, will make way for the new MIT.nano facility, which is expected to be complete by 2018.

POST-APOCALYPTIC SOCIOLOGY 101

Streaming is now in session. Watch your favorite TV shows live or stream them when you want.



The Walking Dead available at xfinityoncampus.com

New this year to Residence Halls!

Now you can stream thousands of top shows and movies on any device. Best of all, this service is included with your on-campus housing fee.



The Walking Dead and New Girl available with the XFINITY On Campus app. The Big Bang Theory available at xfinityoncampus.com.

Getting started is easy:

- 1. Go to xfinityoncampus.com.
- 2. Select your school from the drop-down menu.
- 3. Follow the login instructions and start watching.

Add HBO®, SHOWTIME®, the Sports Entertainment Package and more for a small monthly fee.



Start watching now at [xfinityoncampus.com](http://xfinityoncampus.com).



Restrictions apply. Not available in all areas. Programming varies depending on campus. © 2015 Comcast. All rights reserved. TBS logo is a trademark of Turner Broadcasting System, Inc. A Time Warner Company. All rights reserved. NEW GIRL™ © 2014 Twentieth Century Fox Film Corporation. All rights reserved.

GBR15-104-A1-V1

Solution to Sudoku

from page 7

3	2	1	5	4	6	8	9	7
6	5	7	3	9	8	2	4	1
8	4	9	1	2	7	5	6	3
2	1	5	8	3	9	4	7	6
9	8	4	6	7	5	3	1	2
7	6	3	4	1	2	9	5	8
4	9	6	7	8	3	1	2	5
1	7	8	2	5	4	6	3	9
5	3	2	9	6	1	7	8	4

Solution to Techdoku

from page 7

5	2	1	3	6	4
4	1	6	2	5	3
3	6	5	1	4	2
1	4	3	5	2	6
2	5	4	6	3	1
6	3	2	4	1	5

Solution to Extra Credit

from page 7

2	3	4	1
3	4	1	2
4	1	2	3
1	2	3	4

Solution to Crossword

from page 7

BUTTE	MEWS	FOAL
OPERA	OBOE	UCLA
STAIR	DOVE	SALT
COMPLAINER	SLOT	
	IFFY	ABATE
BRIBERY	PERU	
LITER	EASEDOFF	
OPAL	BANDS	GALA
WELLPAID	METED	
	YEAR	SEETHES
SEDAN	SAGA	
NARC	MALCONTENT	
UTAH	AJAR	EAVES
BAKE	MATE	SPEAK
STER	AXED	TENTS

Be a PENgvin

write for us  
e-mail [join@tech.mit.edu](mailto:join@tech.mit.edu)





## MOVIE REVIEW

# ***Kumiko, the Treasure Hunter*: An unexpected spin on the adventure movie**

Rinko Kikuchi stars as the enigmatic and confusing Kumiko

KUMIKOTREASUREHUNTER.COM

**Rinko Kikuchi** stars as the title character Kumiko in *Kumiko, the Treasure Hunter*.

**By Karleigh Moore**  
*ARTS EDITOR*

I felt an overwhelming amount of empathy while watching *Kumiko, the Treasure Hunter* — both for Kumiko and the characters who interact with her. Kumiko is more than a little crazy, but she is brave enough to depart on a journey that most of us would only dream of. She is extremely depressed in Japan, so she leaves her job and her family behind in search of a hidden treasure she believes she will find in Fargo, Minnesota.

Her boss likes to pry into her personal life, and her mother calls daily to demand that she marry soon or at the very least, she find a boyfriend. She doesn't like to go out with friends when the workday is over; instead she obsesses over her copy of *Fargo* (a movie made by the Coen Brothers

in 1996), making notes and sketches that she hopes will help her find the suitcase of money that Steve Buscemi's character buries in the snow. Kumiko tries to steal a map of Minnesota from a library in Japan but is apprehended by a police officer. She claims that she needs the map to fulfill her destiny and likens herself to a "Spanish Conquistador." Her conviction that this treasure exists confounds police across the globe; her beliefs don't waiver in the slightest as a Minnesotan sheriff delicately tries to explain that the movie is fiction. Kumiko insists that *Fargo* is "a true story" (as stated at the beginning of *Fargo*).

Rinko Kikuchi does a great job of performing the confused and confusing Kumiko. The title of the film suggests adventure, which it does portray but not in the way you'd expect. Kumiko's journey is not so much exciting as it is embarrassing to

watch. If you experience second-hand embarrassment when watching movies, you might want to sit this one out. Every character we meet makes a fool of themselves in one way or another — the kindly Minnesotans have the best intentions but are undoubtedly culturally unaware, and Kumiko doesn't seem to understand the difference between fiction and reality. She spends much of the film running away from things. At first, it's work, her mother, and social expectations and later, it's bills, cab fares, and every single person who seeks to help her.

The film moves quickly and doesn't waste any time. The cinematography was impressive, especially with capturing the sense of being lost and overwhelmed in the frozen midwestern wilderness. The ending speaks for itself, and the viewer is force-fed nothing throughout the film, which was re-

★★★★★

## Kumiko, the Treasure Hunter

**Directed by David Zellner**

**Starring Rinko Kikuchi,  
Nobuyuki Katsube, David  
Zellner, Shirley Venard**

**Not Rated**

## Now Playing

freshing. It is hinted that *Kumiko, the Treasure Hunter*, like *Fargo*, is “based on a true story,” whatever that might mean.

## THEATER REVIEW

# Love's Labour's Lost: A labor of love

## Ensemble rises to the challenge with mustaches, puppetry, and bawdy balloons

**By Michael Lin**

The MIT Shakespeare Ensemble put on their production of *Love's Labour's Lost* on March 19–22 in La Sala de Puerto Rico, directed by Liz Adams. Despite the challenges of performing one of Shakespeare's more esoteric plays, the Ensemble executed it with both talent and enthusiasm.

*Love's Labour's Lost* opens with King Ferdinand, played by Deng-Tung Wang, and his entourage of Berowne, Longaville, and Dumaine (Stephanie Cheng '15, Phil Arevalo G, and Peter Duerst '18), signing a written vow to devote the next three years of their lives to intensive scholarship, which limits them to an ascetic lifestyle consisting of six meals a week, three hours of sleep a night, and most notably, no interacting with women. Bearing these terms in mind, the shift from 16th-century Spain to what appears to be modern MIT seems rather pointed. It's almost a wonder that the term of the contract wasn't rewritten to "four years, and an optional fifth for engineering studies."

As one might expect, the high-minded intentions of Ferdinand's contract promptly implode before the first scene is over, as the canny Berowne reminds the king that the Princess of France, played by Emily Taradash, is shortly due to visit the court with her own entourage of Rosaline, Katherine, and Maria, played by Amelia Smith '17, Swati Kataria G, and Natalia Musatova. It isn't long before the four men are lovestruck by the four women, contrary to the terms of their oath; one of the funniest scenes in the show sees them enter one by one to se-

cretly proclaim out loud how much in love they are, not knowing that they are being overheard by those that preceded them, in hiding nearby. Each of the men reveals himself in turn to point an accusing finger and declare that no, he would never do something so crass as fall in love and break his contract, culminating in a collective realization that being high and mighty is silly and that they may as well acknowledge — at least amongst themselves — that they’ve no hope to living up to their unreasonable, self-imposed standards. Of course, they have no intention of admitting that to the women they’re in love with. Thus the hijinks continue.

I found the romantic plotline between the King's gentlemen and the Princess's ladies to be the most entertaining and interesting component to the show; it's fairly familiar ground for fans of Shakespeare's comedies, and given that the narrative arc of *Love's Labour's Lost* doesn't stretch as far as some of Shakespeare's other plays, the screwball antics of the eight romantic leads provides most of the meat. Of the four men, Stephanie Cheng as Berowne receives the most narrative focus, and her energetic performance as a rational and clever character grappling with the not-always-rational emotion of love is nothing short of exceptional. Among the peripheral characters, the highlights for me were Tal Scully '18 as Boyet, one of the Princess's attendants with a mind for mischief at Ferdinand's court's expense, and Hatem Adell as Costard, an overall-clad mustachioed peasant with a talent for making suspiciously phallic balloon figures.

As much as I enjoyed the show, some of the changes made to this production were a mixed bag that could be at times confusing for me as an audience member. On the one hand, the updated setting made way for amusing moments like Maria's selfies with the Princess and Dumaine's love song written to Katherine, which is the most heavy metal treatment I've ever seen given to a ukelele. Literally on the other hand, the characters of Holofernes and Anthony Dull were consolidated into the single per-



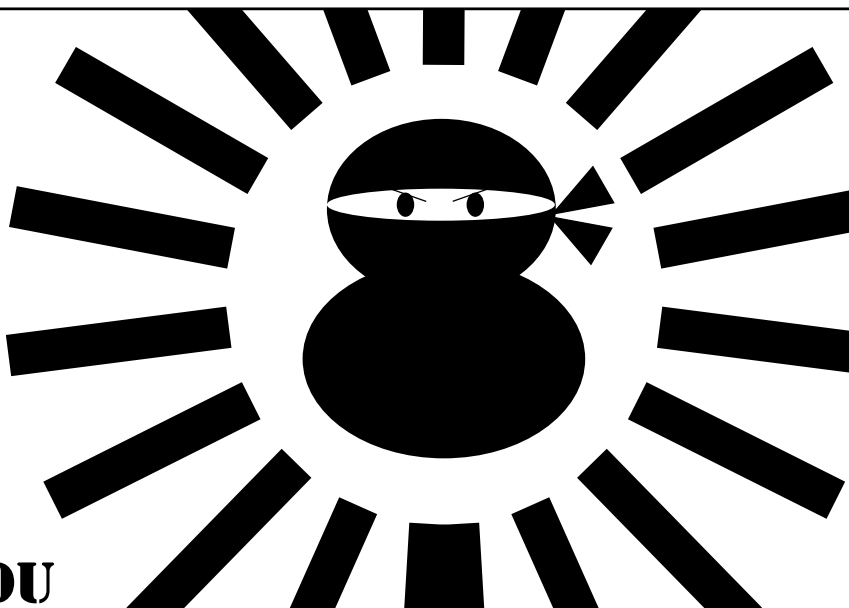
MELISSA RENEE SCHUMACHER—THE TECH

**King Ferdinand (Deng-Tung Wang) woos** the Princess of France (Emily Taradash).

# Another disappointing adaptation of dystopian teen fiction

ANDREW COOPER

# Afro-Latin jazz gains new fans



# The hilly road back to MIT

## What happens when students are hospitalized, and the toll on those close to them

### By Rachel Davis

My friend Einily was one of the many MIT students admitted to McLean, a psychiatric hospital, last semester after the death of Phoebe Wang.

One night, [REDACTED] was shocked to find Emily unresponsive one hour after she attempted suicide by overdosing on two different drugs, one of which was prescribed to her. With the help of a GRT, an on-call mental health clinician, the MIT Emergency Medical Service, the MIT Police Department, and Cambridge Fire Department paramedics, Emily [REDACTED] was transported to Massachusetts General Hospital and put on IV fluids.

Her GRT drove me to the hospital, and we waited in the emergency room; it felt like a nightmare. Emily was delirious, speaking nonsense and constantly asking what was going on, her mind completely clouded and oblivious to our words and the words of the nurses. There was a terrifying “sitter” at the door who was neither a nurse nor a doctor, just a person who had the job of sitting there and making sure that Emily did not try to kill herself again.

Eventually, some doctors from the psychiatric wing came in to speak with Emily, and we waited outside of the room. When Emily's mother got to the hospital, we were told to leave.

Emily, whose name has been changed in this story to protect her privacy, had been going to MIT Mental Health & Counseling for many months, and she had told her doctor and many friends of her frequent suicidal thoughts. I had held her countless times as she cried and told me of these thoughts, and sometimes we would just sit together and cry. She kept asking why it was so difficult, just everything at MIT. If only it were just us who were struggling.

We were and are not alone — not at MIT, and not across the college population. According to the National Alliance on Mental Health, more than 25 percent of college students have been diagnosed or treated by a professional for a mental health condition within the past year.

**There was a terrifying “sitter” at the door — neither a nurse nor a doctor — who had the job of making sure that Emily did not try to kill herself again.**

More people than ever are seeking help from MIT's Mental Health & Counseling. As compared to monthly data from 2013, last September and October saw a 14 percent increase in the number of undergraduate students and a 22 percent increase in the number of graduate students seen at MH&C. Additionally, more people have been using the on-call mental health urgent care line. From August to October 2013, there were 36 calls total; in the same months of 2014, there were 55 calls during business hours alone.

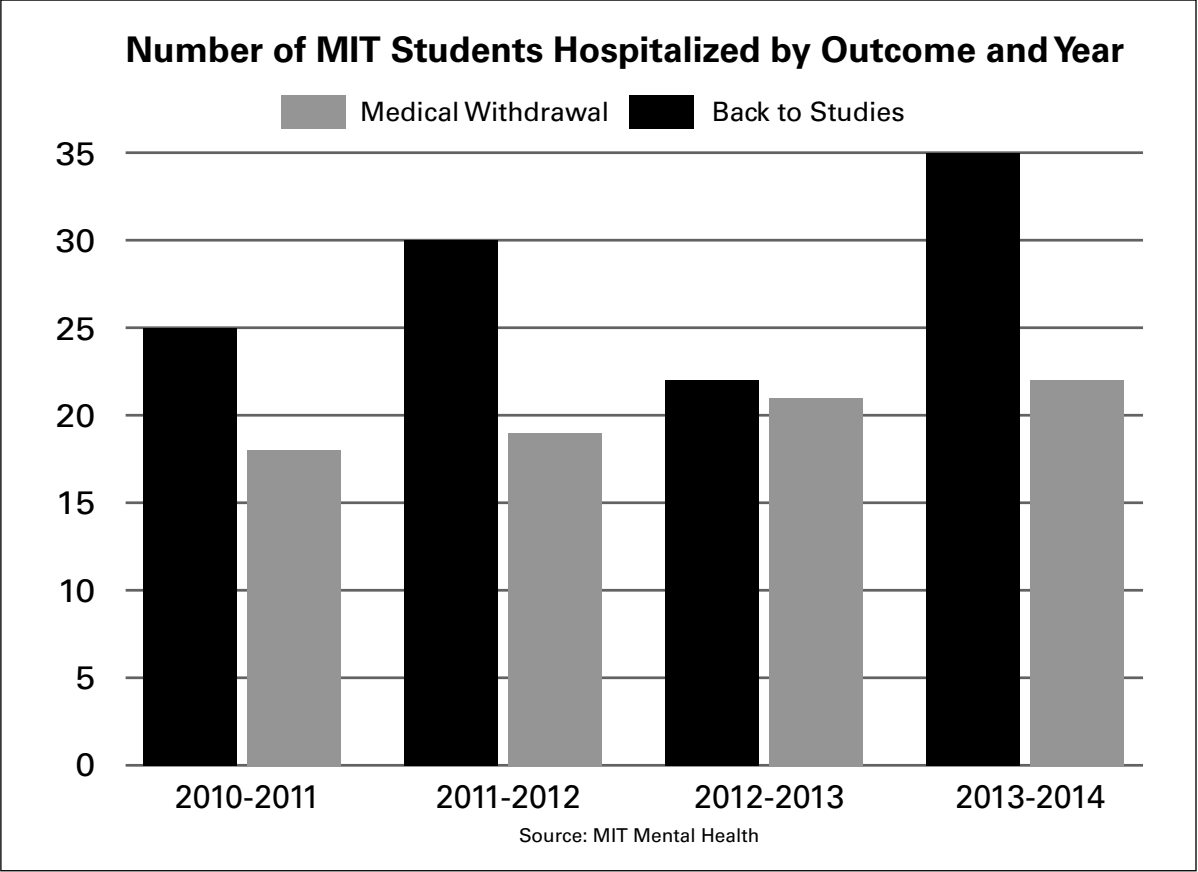
Alan Siegel, the head of Mental Health at MIT, said that colleges in the area are all seeing high numbers of psychiatric admittances to hospitals. McLean is the hospital that almost all MIT students are admitted to if they are hospitalized for mental health reasons. While there, Emily said that “about half the people [at McLean] are college students going through mid-college crises like us, and the other half are older people with families that are going through midlife crises.”

According to Siegel, this is an unprecedented occurrence — the number of college students is usually far outnumbered by the number of older patients.

Many students, upon arrival to McLean, feel uninformed about what hospitalization entails and what the results of their actions would be. This means that a major issue is the distribution of information. Our normal psychiatric hospitalization rate of 40–50 people a year may seem small compared to our MIT community of around 20,000 people. However, to all those people who are close to the situation, it is difficult when one feels uninformed about hospitalizations and would like to help a friend during a challenging time.

When Emily was hospitalized, none of her friends knew how to approach the situation. At first, we were not allowed to visit her at Massachusetts General Hospital. When I called and asked when I could see my friend, they said that they were not allowing any visitors due to the flu outbreak. When I asked why she was being kept in pediatrics and where she was going next, they would not disclose any information. When I talked to her on the phone, I got panicked stories of how the doctors were not telling her anything and that she was petrified that they would never let her come home to MIT, which is all she wanted to do.

MIT provides pamphlets and information for those who are hospitalized. Sharon Snaggs Gendron, Assistant Director of Student Outreach and Support, is responsible for getting that information to those students. However, the



information is not always consistent since every situation is unique. Furthermore, when a student is in a stressful situation, the last thing that the student wants to do is read an information booklet. This is why someone from MIT's Student Outreach and Support will usually visit a student who is admitted to a hospital for psychiatric reasons.

When I asked Emily if she had been visited in the hospital by someone yet, she said that she didn't remember. When I asked if she got any sort of booklet, she answered: "Probably, but I did not read it. I didn't read anything that they gave me. They just weren't telling me anything."

There's the rub. Most students rightfully believe that they will never have to go through psychiatric hospitalization, so they don't research what is involved and what one's rights are. However, once a student is actually hospitalized, they are too overwhelmed and panicked to read or research the information.

Eventually, Emily was transported in an ambulance to McLean, where she was kept in the admittance room for over three hours while they typed away and got a room ready for her. When she was finally admitted, the nurses took away most of her belongings: a bag with handles, pants with drawstrings, her cell phone charger, most of her clothes. She was left crying in a room, alone in her hospital pants and surrounded by dull white walls adorned with a terrible painting. Her friends were informed of visiting hours, and we immediately made plans to see her as soon as we could.

It was hell getting to McLean. The hospital is located in Belmont, which is accessible via the commuter rail, but Google Maps does not accurately describe the 20-minute sidewalk-less trek in the dark to the hilly campus of McLean. It was scary and rainy and absolutely awful, and we swore never to do it again. So we took a \$40 taxi home.

But not before we brought Emily new pants and shorts and food and anything else the nurses would let us bring inside for her. And it was just like jail: we were only allowed to give one hug hello and one hug goodbye. We gave her secret under-the-table hand squeezes and hoped that the nurses wouldn't kick us out. They would pass by every ten minutes with a click, counting the patients with a device.

Our housemaster drove us a couple more times. We rented Zipcars other times. Borrowed cars another time. The drive was long and painful, like the commuter rail. A week went by. I remember the phone calls I had with Emily: "I just want to come home. They won't let me come home."

After this terrible experience, I emailed Siegel to learn more about how MIT handles hospitalizations. Siegel commented in an email: "Dr. Lejeune or I see every student who is hospitalized in all psychiatric inpatient units, not just McLean. We consult with the clinical teams caring for students in the hospital. If a student is hospitalized out of state, we will also engage the clinicians who are caring for the student. We do this to make sure the clinicians understand MIT and also to facilitate discharge planning." Simon Lejeune is the associate chief of Mental Health & Counseling at MIT, and the doctor that Emily spoke with at McLean.

Siegel reported that most hospitalizations occur due to students being unable to function on their own. This could

mean the student is failing most of or all of her classes, is abusing and addicted to a substance, or is so depressed that she is unable to get out of bed and heal. Not all hospitalizations are related to self-harm or suicide.

In the 2012-2013 academic year, 43 MIT students were hospitalized for mental health reasons without involving MIT Mental Health & Counseling. Of those, 22 students returned to their studies directly from hospitalization. These are small numbers compared to the total undergraduate and graduate body size, over 10,000 people. However, it does show that students who are hospitalized have a good chance of returning to their studies if the student's academics are not compromised.

**I remember the phone calls I had with Emily while she was at McLean: "I just want to come home. They won't let me come home."**

These were all things that we did not know when Emily was at McLean. She was hospitalized, and terrified of not being able to get back to MIT.

Between the Office of Student Outreach and Support, Mental Health & Counseling, Student Support Services, and more, hospitalized students are well taken care of. However, the people closest to them are the ones that also need to be cared for and reached out to in crisis. This is an ongoing issue that many do not think about. The administration is also struggling to reach out to a community in crisis.

MacGregor Hall, East Campus, and Maseeh Hall all found support from the administration after their respective tragedies. Student Support Services and Mental Health & Counseling sent representatives to the dormitories, and many professors were very understanding of students' reactions to the deaths.

But it does not take a death to shake a community. In one dormitory, after a student attempted suicide, the people who were close to the student were unnerved for weeks, slipping academically. I found one of the students in the hallway in the middle of the day walking to Student Support Services, not during open hours and without an appointment, almost in tears. After giving him my time slot, he ended up taking a leave from MIT.

When Emily finally came back to MIT, she immediately crashed. She could not sleep in her own room because it brought back memories of her overdose. She could not go a day without a panic attack. She feared not being able to succeed at MIT or being sent back to McLean.

But then she got better. Time passed; we all healed slowly but surely. And then there was the death of Matthew, and then there was the death of Christina, and then Phoebe's death was officially ruled a suicide after months of uncertainty, and then we all fell down again.

These tragedies happen, people fall apart — what can we do together to stay sane and secure in our own skin?

*Rachel Davis is an EMT, MedLink, MIT Admissions blogger, and member of the Class of 2016.*

```
File Edit Options Buffers Tools Im-Python Python Help
from new_skills import *

def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python, PHP

if self.interest == True:
    print "E-mail join@tech.mit.edu"

----:----F1 joinTechno.py (Python)--L1--Top-----
```

IS LIFE CAMPUS LIFE CAMPUS LIFE CAMPUS LIFE

# Reminiscences of MIT in the mid-1950s

Tales of the Institute in “Days of Yore”

By Eugene Elander

Heading off to the world-renowned Massachusetts Institute of Technology in late August, 1954, I believed that I was doing a public service to the nation. America was in the early stages of the Space Race with the Soviet Union, and my guidance counselor at Dayton, Ohio’s Fairmont High School had convinced many of us graduating seniors that it was a civic duty to become engineers and help advance the nation’s chances of winning that historic race. Little did I know then that beating the Commies in space, and to the moon, would have little to do with my activity at MIT.

A few highlights of those MIT Days of Yore stand out, even after 60 years have passed. Some are worth recalling; others are perhaps best forgotten. One of my first shocks as a freshman at MIT was the size of large lecture classes, which exceeded the size of the entire Fairmont senior class. The most memorable of these freshman lectures had to be the freshman physics course taught by distinguished MIT professor Hans Mueller, who was a world-class practical joker.

**On May 1, replicating the founding of the Soviet Union, East Campus marched on West Campus.**

Two infamous incidents come to mind. During one class, Dr. Mueller had a glass of water and a beaker of concentrated sulfuric acid on the large lab table in front from which he lectured. After demonstrating the potency of the acid, he appeared to switch it accidentally with the water glass, then seeming to take a big swallow from the beaker of acid, while everyone gasped or screamed. He then calmly asked what all of the fuss was about, knowing all along that he had switched the glass for the beaker, which

were the same size and shape. His lecture continued without further ado — and it was only later that many of us learned that we had been pranked by a master.

Then, there was Dr. Mueller’s lecture on molecular movement and probability. That seems like a harmless topic — unless it is the molecular movement of air, and the tiny (but still greater than zero) possibility that all of the air molecules might congregate in one corner of the lecture hall. As the lecture proceeded, we were urged to picture that slight possibility, and the resulting lack of air in the rest of the lecture hall. Dr. Mueller’s description became more and more graphic, and soon a few freshmen were gasping for breath as the air seemed to have fled away. Before long, the gasping spread and intensified, while we looked up into that far corner where our air had migrated and prayed for its return to the rest of the room. Finally, Dr. Mueller bid the air to return, took a deep breath, and proceeded with his lecture as if nothing unusual had occurred.

However, MIT fun-and-games were not limited to the freshman physics classroom. There were, for example, the memorable chemistry lab sessions, which were presided over by ancient crones unofficially designated as Acid Annies. These women appeared to have been at MIT since its founding, and to not have improved much in either appearance or disposition in all those years. Any clatter of test tubes or other glassware earned a stare of reproach, while a Bunsen burner flame which exceeded the proper height caused an immediate and forceful rebuke. It was in chem lab that I learned the proper — or improper — use of the “bugger factor” which was designed to insure that our actual lab results more or less matched the correct ones per the lab manual. This knowledge has proven useful throughout later life, as it has a host of applications ranging from political polling to gambling decisions. Life, indeed, has many such “bugger factors.”

In the pressure-cooker that was student life at MIT in the mid-1950s, many memora-

ble episodes occurred outside of our classrooms. Some of these episodes were fueled by “Home Brew” made by placing a batch of raisins (and sometimes other fruit) in a large glass jar or similar container, adding a half pound or so of sugar, and placing this rancid mix on a sunny windowsill to ferment. After a couple of weeks, there was a potent and highly-alcoholic mix which proved that techies could do successful chemistry experiments, after all. Home Brew was never the same twice.

**After demonstrating the potency of the acid, Prof. Mueller appeared to take a big gulp from the beaker.**

Perhaps it was the Home Brew, or perhaps it was the need to relieve (or at least change) campus pressures, but in any event we had occasional Mirror Wars at the East Campus quad. These were pre-arranged by upperclassmen and the word was then passed from room to room. Each participant — and it was considered bad form not to participate — removed his dresser mirror and carefully placed it where the hot Cambridge sun would reflect off the mirror and onto the dorm across the quad. After a half hour or so, dorm temperatures became intolerable, even after we stripped down to “tidy whites” while sweat poured off of us and onto the floor. The first dorm whose residents ran outside screaming and panting was the loser in a Mirror War. Then again, as more Home Brew was sampled afterwards, perhaps none of us were indeed Mirror War losers.

One “Special Event” occurred each year and was eagerly awaited by MIT students. This event always occurred on May Day, May 1, the official date marking the beginning of the Russian Revolution. On that occasion, replicating the founding of the So-

viet Union, MIT’s East Campus marched on West Campus. Both sides were armed with various non-lethal weapons, particularly the infamous Black Marias — lengths of lab tubing filled with high-pressure water and as fat as stuffed sausages. Letting one of these discharge against the opposition scored points, while other creative forms of mayhem contributed to the singular event. Dorm staff and assistants always seemed to disappear in advance of the MIT May Day Riot, and a good time was had to all — or nearly all, anyway. Casualties went to the infirmary, but usually injuries were minor.

Speaking of West Campus, the infamous attempt to enforce a Dinner Dress Code was also memorable. One day, a notice was posted on all bulletin boards there, and circulated room-to-room, that in the future, *ties would be worn as required attire at all evening meals*. The House Committee appeared to have devised this scheme to make us more like Harvard students, whose neckties were typically thrown over one shoulder of a blue blazer, above their khaki trousers. But techies were not the passive sheep attending Harvard; we had minds of our own. After hushed discussion in the West Campus halls and rooms, a plan was hatched: on the first official day of the new regulation, all residents indeed appeared for the evening meals wearing ties — and nothing else at all! (Those who were on the shy side wore a jock strap.) That was the end of the Dinner Dress Code at West Campus. A blow had been struck for student freedom at MIT!

Finally, the role of the ROTC military training program in the 1950s must be recognized. At least two years of the ROT CORPS, as it was unofficially termed, was required of all students, since MIT was a so-called land-grant college. We all envied the one techie who was too tall for a uniform to fit, and therefore was declared exempt. The rest of us, except for a few military types, managed to do our best to undercut the ROT CORPS — but that is a story for another day.

*Eugene Elander is a member of the Class of 1958.*

## Harder than MIT

Living with postural orthostatic tachycardia syndrome

By Sarah Mendelowitz

I am an MIT alum, and I suffer from POTS (postural orthostatic tachycardia syndrome). Before reading about the tragic news of MIT student Christina E. Tournant’s death, most of you had probably never heard of POTS. Most of the doctors that I have seen have also never heard of POTS. However, more people have POTS than multiple sclerosis (MS) or amyotrophic lateral sclerosis (ALS). Experts estimate that POTS impacts one to three million Americans, 85 percent of whom are female.

**As an engineer, it is infuriating to know that there is no way to completely fix my broken body.**

POTS is an autonomic nervous system disorder. Doctors do not fully understand its causes, and there is currently no cure. When you have POTS the bodily systems that involuntary manage heart rate, blood pressure, sweating, digestion and urination don’t work properly. The hallmark symptom of POTS is a rapid heart rate upon standing that resolves when you lay down. When I first developed POTS, I couldn’t get out of bed without having my heart rate skyrocket to over 140 beats per minute (bpm). Now, with my symptoms under control, my typical standing heart rate is around 100 bpm. Imagine feeling like you are running a marathon, all the time, every day of your life. It’s exhausting. Not to mention the nausea, dizziness, heat intolerance, sweating, insomnia and difficulty concentrating that I also endure.

Today people with POTS suffer in frustration. Most doctors don’t know how to diagnose us; the average diagnostic delay is six years. Uninformed doctors tell us we must be crazy or stressed. When we do finally get diagnosed, there are limited treatment options. The most broadly agreed upon treatment is exercise, plenty of water and a very high-salt diet. We experiment on ourselves by altering our diet, trying new exercises, bouncing from medication to medication, sometimes even grasping at straws that worked for some POTS patients we met on Facebook. Externally, we do not look sick; dealing with the stigma of using a wheelchair or handicapped sticker can thus be awkward.

When my POTS symptoms first appeared, I went from working a full-time job, playing soccer after work and hiking on the weekends, to bedridden in a matter of days. I spent two weeks at two different Boston hospitals where I underwent every test imaginable. I was released from the hospital far too sick to care for myself and forced to live with my parents for almost a year. When I finally returned to living on my own, my days revolved around showering, preparing meals and physical therapy. It was simply too exhausting to handle anything else.

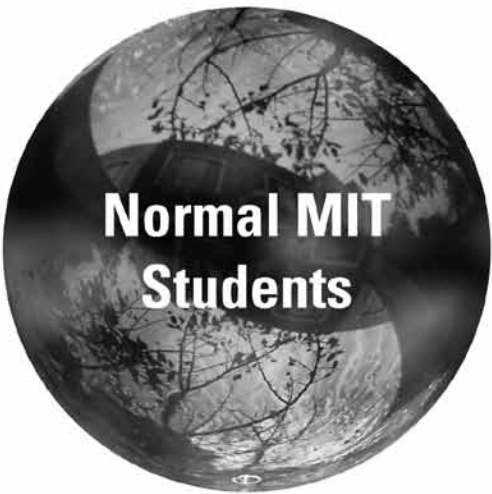
Progress is painfully slow. Even now, four years later, I am tested everyday physically, emotionally and mentally. My energy has to be managed carefully, which means if I need to run errands today I probably won’t be able to cook dinner tonight. I was once a typical MIT student. I did everything, and I did it passionately. I played on the soccer and basketball teams. I was a UA for 2.007. I stayed up late studying. And I went to Pour House, a burger joint on Boston, on the weekends. I can’t imagine dealing with the rigors of MIT while managing my health. MIT was incredibly hard, but having POTS has been the biggest challenge of my life.

Part of my fight against POTS has been to raise awareness and research funds. I started doing a walk every year with my family and friends to raise money for POTS research and to keep myself motivated during physical therapy. This year I am very excited to be planning a POTS Walk and 5K race that is open to the public. In this small way I feel control over my illness, because I can contribute to fixing the bigger problem. I will be dedicating this year’s POTS Walk and 5K race to Christina Tournant.

As an engineer, MIT taught me how to fix things that are broken. It is infuriating to know that there is no way to completely fix my broken body. I am the model patient; I follow every doctor recommendation, participate in POTS research studies, experiment with new medications and work religiously at physical therapy. But the reality is, my life will never be the same. I will probably never play soccer again. I might never work a full-time job again, and I will be on some form of medication for the rest of my life. That reality makes me sad. But MIT also taught me how to persevere. I might not be the exact same person anymore, but my tenacity still remains.

*Sarah Mendelowitz is a member of the Class of 2003, graduating with an SB in mechanical engineering in 2003 and an SM in mechanical engineering in 2005.*

Do you live *outside* the bubble?



Tell us your story



YOU

join@tech.mit.edu

# Candidates debate questions posed by *The Tech*

## UA Presidential contenders address mental health, dorm security and sexual assault

UA Debate, from Page 1

dent of the Panhellenic Association, Taylor Rose '16, to ensure that shuttles continued to safely transport students around campus despite harsh winter conditions.

Wang and Rigby described their plan to coordinate more student activities with resources from the MIT administration to increase awareness of sexual assault on campus.

### Student mental health and wellness

Shehata discussed having a town-hall-style discussion between students and administrators about mental health on campus. Relevant administrators, Shehata said, should have question-and-answer sessions with students so that it's clear exactly what the administration is doing to address mental health at MIT.

Wang said that the UA should facilitate counselors' coming to specific living groups so that students do not have to go to Mental Health themselves.

When addressing mental health on campus, Davis said that "mental health is different from community to community" at MIT. He proposed more internal community discussions. Liu added that there also needs to be a clearer approach to other mental health issues like anxiety, and not just depression.

### Dorm security

Wang said that there has not yet been a clear resolution to discussions about dorm security.

His running mate, Rigby, pointed out that the newly applied security measures came after the death of MIT Police Officer Sean Collier,

and that "although it is difficult for friends [of residents] to enter dorm buildings, in peer institutions, you can't even get into a dorm unless you live there."

In regards to dorm security, Mahari said that the newly applied security measures were indicative of "MIT working harder, not smarter."

"It's still very easy to get into Burton Conner if you forget your ID. You can climb in through one of the bottom windows or walk in behind someone else. These changes haven't addressed security; they have only made our lives a little less pleasant."

Mahari and Shehata said that the UA should act a support system to help dorms and living groups communicate students' views about dorm security to the administration.

Davis also agreed that discussions about dorm security between students and the administration must be facilitated by the UA. "Students aren't being heard about security issues," he said. He added that the UA must be more forward-thinking, and, for example, be mindful of possible security changes that may occur once East Campus undergoes renovations.

### Unconstitutionality of recent UA expenditures

The UA Judicial Board recently declared "constitutionally inappropriate" the authorization of UA funds for rapper Lil B's visit to MIT in November. Candidates were asked for their views on what happened and on transparency at the UA.

Shehata said that the UA's lack of transparency is a symptom of the way it is currently organized, and that to address this, more bylaws



ALEXANDER C. BOST—THE TECH

**Candidates for President and Vice President of the Undergraduate Association debate** in the Student Center lobby Tuesday night. From left: Sophia Liu '17, Matthew Davis '16, Laila Shehata '16, Robert Mahari '17, Siobhan Rigby '16, and Daniel Wang '16.

may be needed.

Davis also affirmed a lack of transparency in the UA and that UA officers must be held more accountable for their actions. He said that the UA lacked structures to hold officers accountable,

Wang disagreed that the UA's structure needed to be changed, saying that the UA constitution was not followed when the Lil B payments were made.

"It's not that the right thing was done and the wrong result occurred," he said. "The wrong thing was done with a wrong result."

### Closing statements

Wang said that the goals of his and Rigby's ticket included holding a lecture series with leaders in the real world, inspiring more students to help with the UA to fix the UA's manpower problem, holding a mental health summit, and increasing collaboration between administrators and the Title IX Student Working Group.

Shehata and Mahari said they planned to hold a series of town hall meetings for administrators and students to discuss issues such as advising, grade transparency, academic culture at MIT, and stress on campus. They said that all of their goals were realistic and

could be accomplished within a year.

Davis and Liu discussed their past leadership positions within their respective dorms and the UA. They mentioned their plans to make the MIT undergraduate body a more international presence and connect students to places around the world.

The debate, moderated by two members of *The Tech's* executive board, Will Conway '16 and Tushar Kamath '16, took place on the first floor of the Student Center. Candidates responded to questions posed by *The Tech* and by students in attendance.



**COUNCIL  
FOR THE  
ARTS AT MIT**

First Prize: \$5,000  
Second Prize: \$3,000  
Third Prize: \$2,000

MIT undergraduate and graduate students are encouraged to apply.

**CALL FOR SUBMISSIONS:  
SCHNITZER PRIZE IN THE VISUAL ARTS**

Submission Deadline  
Monday, April 13, 2015

For more information, visit: [arts.mit.edu/schnitzer](http://arts.mit.edu/schnitzer)

# Grad student opens up about testifying in marathon trial

*Nathan Harman says he saw Dzhokhar Tsarnaev*

**Sanjana Srivastava**  
STAFF REPORTER

While Dzhokhar Tsarnaev, the surviving suspect in the Boston Marathon bombings and the murder of MIT Police officer Sean Collier, was leaning into Collier's police cruiser at around 10:30 p.m. on April 18, 2013, MIT graduate student Nathan Harman rode his bicycle past.

Tsarnaev "snapped up, stood up, and turned around — he looked startled," Harman said during his testimony in court on March 11.

"I just didn't think anything of it and rode off," Harman testified, saying that he thought Tsarnaev was probably just an MIT student. Harman pointed Tsarnaev out as the person he'd seen, and specified that "I only saw one person." (Tsarnaev's defense has argued that his brother was the one who killed Collier.)

"It didn't raise any red flags because the MIT Police have a good relationship with the MIT community," Harman said in an interview with *The Tech*.

Harman's interest was piqued the next day when he saw a news article about the murder. "Once I knew it was on that corner, at around that time, then the memory sparked," Harman told *The Tech*. "I had seen this person leaning into the car," he said.

Having made the connection, Harman realized what an unlikely position he was in and conveyed his shock to his friends.

A few days after the shooting, MIT's police department sent out an email asking for anyone who may have information to come forward.

Harman left a message, and MIT Police got back to him quickly — the fact that he had mentioned riding his bike past the scene had caught their attention.

Security footage from a camera on top of the Green Building was played during Harman's testimony. It showed a bicyclist riding past the car as the murder happened, and Harman realized that investigators had known he existed — "they were waiting for me to come forward," he told *The Tech*.

Harman spoke to MIT Police the following week and then spoke to the Massachusetts grand jury briefly in the summer. The only other witnesses present were the people in the Koch Institute who called the police when they heard gunshots.

Before the grand jury, Harman pointed out where he rode his bike on a map of MIT and told his story.

"Then, I heard nothing for a year," Harman said to *The Tech*.

In late 2014, as the trial neared, Harman said he got a call from the FBI. He met with "two members from the FBI that were assigned to this case, and then [William] Weinreb," one of the federal prosecutors. They confirmed that Harman was willing to testify, showed him the evidence they'd ask him about, and reviewed questions.

"They told me to avoid coverage of the trial itself," Harman recalled, and only asked questions about his experience. During the actual testimony, the material the prosecution covered was exactly what they told him beforehand, Harman said. They had told him: "We're only here asking [for] your story."

The prosecution also told Harman that the defense may contact him, and told him that if he were cross-examined, he should "slow down, say more than a yes or no, make sure [to] tell the truth." Harman was neither contacted nor cross-examined, which was a "relief," he said.

In fact, aside from the prosecution, Harman had little interaction with anyone regarding the events of that night — few people knew. That Harman would be called to testify is considered one of the best-kept secrets of the trial, as most other information was leaked beforehand.

Harman, who is pursuing a PhD in math, said he had lived his life normally and had "no idea" how the prosecution kept his name under wraps.

"Someone who knew me told me a few days in advance that I'd been mentioned" during a discussion of evidence, Harman told *The Tech*. "Other than that, I wasn't mentioned until I was called in."

On the day of the trial, Harman said he was "really nervous," pacing outside the courtroom. Happily, there were no surprises.

Closing statements for the first phase of the trial are expected next Monday. The jury will have to decide whether Tsarnaev is guilty of 30 different charges. If he is convicted, the trial will move onto the penalty phase.

Since Harman's testimony, he said he has been constantly contacted online by both press and acquaintances, but he tends to ignore questions unless they are asked in person.

"I don't want to deal with that," he told *The Tech*, his voice strained.



JANE FLAVELL COLLINS

Massachusetts chief medical examiner Henry Niels presents the tattered clothes of 8-year-old Martin Richards, who died in the Boston Marathon bombings.

## Prosecution and defense rest in trial

*Tsarnaev's defense examines FBI photographer, forensics experts*

**Tsarnaev Trial, Page 14**

their hands, as Niels gave his graphic report in a steady tone. Niels said he had performed 4,700 autopsies over the course of his career.

Richard was just 53 inches tall and just under 70 pounds when he was brought in for autopsy. He and his two siblings, Jane and Henry, had attended the marathon with their parents, Bill and Denise. His sister Jane lost a leg, while his mother was blinded in one eye. Richard was an athlete and an avid sports fan — he was wearing a New England Patriots t-shirt and a green Boston Celtics shirt when he was killed.

Monday morning began with testimony from another medical examiner who had performed Lingzi Lu's autopsy. Lu, a graduate student in statistics at Boston University, was killed by the second bomb to go off at the marathon. The prosecution maintains that the second bomb was set off by Tsarnaev, which the defense does not dispute.

The medical examiner described the fatal leg injuries Lu suffered from the blast. She had multiple gaping lacerations on each leg — the two largest were on her upper thigh, six and seven inches long. Her most serious injury was to her left femoral artery, which was completely cut through. The examiner stated the damage would have caused her to bleed to death "within seconds to minutes," and said that when she examined Lu's injuries she found round pellets, small nails, and pieces of silver metal from the bomb.

Lu, who was from the city of Shenyang in northeastern China, had a passion for music. Her aunt said she was "a dreamer" and "wanted to do something

big," according to the Boston Globe. Her parents have established The Lingzi Foundation to provide similarly ambitious students with scholarships.

Last Thursday, jurors saw the autopsy photos of Krystal Marie Campbell, who also died from blast injuries to the lower extremities, as well as to the torso. Her left femur broke completely and pellets were found in her skin, along with an embedded piece of metal in the back of her leg. The explosion left her hair singed and her back burned.

Campbell had attended the marathon every year as a spectator. "She had tremendous passion and energy, and Krystle attacked life with vigor and excitement," Hordon Health, a Boston gym where Campbell had once worked as a fitness coach, said in a statement.

The defense did not cross-examine any of the doctors who testified on the autopsies. Tsarnaev's attorneys have instead focused on the more technical aspects of the case, including whether Tsarnaev was living with his brother at the time of the explosions, to downplay his role in the preparations.

Once the prosecution finished, the defense began its case by calling FBI photographer Michelle Gamble to the stand, followed by two computer forensics experts and an FBI fingerprint examiner.

If the trial enters the penalty phase, the defense will likely try to demonstrate to jurors how Dzhokhar Tsarnaev was influenced by his brother, Tamerlan. Since a death sentence must be decided upon unanimously, it would take just one juror to keep Dzhokhar off death row.

*Renae Reints, a student at Suffolk University, contributed reporting for this article.*

## Attention Student COOP Members GET ON BOARD!



REAL BUSINESS  
REAL DECISIONS  
REAL EXPERIENCE

### APPLY TO BE ELECTED TO THE COOP'S BOARD OF DIRECTORS

The COOP is now accepting applications for nomination for election as a Student Director for the 2015 – 2016 academic year. Applications are available online at [www.thecoop.com](http://www.thecoop.com).

APPLICATIONS  
AVAILABLE ONLINE AT  
[WWW.THECOOP.COM](http://WWW.THECOOP.COM)  
BETWEEN MARCH 30  
AND APRIL 10, 2015

[WWW.THECOOP.COM](http://WWW.THECOOP.COM)



A sampling of people you'll meet during a typical dinner at The Tech:

Derek, Course 1	Will, Course 8	Anne, Course 17
Kath, Course 2	Jess, Course 9	Leon, Course 18
Esme, Course 3	Joyce, Course 10	Jack, Course 19
Dohyun, Course 4	Vince, Course 12	Tushar, Course 20
Vivian, Course 5	Anthony, Course 14	Stephen, 21/CMS
Austin, Course 6	Maggie, Course 15	Keith, Course 22
Kali, Course 7	Chris, Course 16	Marissa, Course 24

Meet your new pset support group



[join@tech.mit.edu](mailto:join@tech.mit.edu)  
W20-483, 617-253-1541

# Can the Red Sox rebound in 2015?

*Team’s power hitters coupled with uncertainty in rotation are set to make for an intriguing year*

By **Souparno Ghosh**  
*SPORTS EDITOR*

After a forgettable first-to-worst season in 2014, the Red Sox are looking to bounce back for the second time in three years. After finishing with the highest slugging percentage in 2013, the Red Sox finished 14th in the 15-team American League in that same category. Quite simply, the bats that came alive the year before were largely quiet either due to injury (Pedroia, Napoli, Victorino) or were downright unproductive for large parts of the season (Boagerts, Nava, Gomes).

The Red Sox front office led by GM Ben Cherington wasted no time in building a revamped batting lineup, adding power-hitters, switch-hitting third baseman Pablo Sandoval and shortstop-turned left fielder Hanley Ramirez. Suffice it to say, much needed pop has been restored to the Boston lineup but question marks still remain about pitching, catching, and crucially the important role of closing. Here we take a look at what to expect from the Red Sox in 2015.

### Batting

The Red Sox batting lineup looks ominous and as Clay Buchholz pointed out recently, it’s reminiscent of the lineup of the 2007 Red Sox. Mookie Betts has had a phenomenal Spring Training and has almost secured the lead off spot. Dustin Pedroia finally has his old self back after having to play with injuries the past couple of seasons. Big Papi, Ramirez, Sandoval, and the fit-again Mike Napoli look set to make up 3, 4, 5, and 6. There is some real power there and you can expect to see quite a few balls flying over the Green Monster.

The much talked-about logjam in the outfield means that two-time World Series Champion Shane Victorino, RBI-machine Allen Craig, Daniel Nava, and Cuban sensation Rusney Castillo are fighting for the seventh spot. Xander Bogaerts is expected to be more productive with a more relaxed approach at No. 8, and the catcher is scheduled to bat ninth. Brock Holt had a breakout season last year, and with his versatility in all positions, save for catcher and pitcher, will definitely put him in the mix, particularly when the big bats need a rest.

There is little doubt this Red Sox lineup has all the potential not just to terrorize opposition pitchers but to put on a show on a daily basis for the Fenway faithful!

### Pitching

Having traded away four-fifths of last year’s starting rotation, pitching was always going to be a big question mark. After Jon Lester opted to reunite with former Red Sox GM Theo Epstein in Chicago, the Red Sox built a rotation of five major-league-proven pitchers but sans a true ace.

Clay Buchholz is scheduled to take the mound on the opening day for the Red Sox. While he has

shown flashes of being as good as any in the major league, he is coming off a woeful season in which he finished with an ERA of 5.34.

Rick Porcello, acquired from the Tigers, and Joe Kelly are both young pitchers with the potential to have breakout seasons, although the former Cardinal might have to start the season on the DL.

Both Justin Masterson and Wade Miley are former All Stars but not necessarily coming off great seasons.

Thus there is a big question mark on how the pitching will pan out. Not having an ace did not stop the Baltimore Orioles from topping AL East last season, although whether that cost them in the post-season is a matter for another day. Red Sox do have the trading chips to try and make a move for Phillies’ ace Cole Hamels, although that is unlikely to happen before the start of the season. Knuckleballer Steven Wright is expected to start in case of an injury to a starter or come in a long-relief situation. Look out for prospect Matt Barnes, who has had an impressive Spring Training coming in from the bullpen.

### Bullpen and Closer

The Red Sox bullpen looks strong with the emergence of lefty Tommy Lane toward the end of last season and the acquisition of Alexi Ogando from the Rangers. Breslow, Tazawa, and Workman are familiar faces looking to make the roster.

The closer situation has been a source of worry since Koji Uehara started having hamstring issues. Should he fail to be ready for opening day, Edward Mujica is expected to slot in that role. Given the number of close games the Red Sox were involved in (and lost) last season, getting Koji healthy and in his prime is essential if the Red Sox are to make a serious bid for the AL East title.

### Catcher

The catching situation seemed set with Ryan Hanigan set to replace David Ross and play backup to Christian Vazquez. That is, till Vazquez went down with an elbow injury and got placed on the 60-day DL, late in Spring Training. The Red Sox are still not ready to throw MLB.com’s top catching prospect, Blake Swihart in the mix. Switch-hitting catcher Sandy Leon was acquired from the Nationals to fill in the role of Vazquez, and while he has a cannon arm like the young Red Sox catcher, offense is not his forte.

It will be intriguing to watch the Red Sox this season. The slugging percentage is very likely to go up and compete with the best in baseball. Pitching remains a mystery though. Will Clay Buchholz emerge as an ace or will Rick Porcello come out of the shadows of Max Scherzer and Justin Verlander? How much will the unfortunate injury to Vazquez come to haunt the Red Sox? April 6 just cannot come any sooner when the Red Sox take on the Phillies for the 2015 season opener.

**Summer in Maine**  
Males and Females.  
Meet new friends! Travel!  
Teach your favorite activity!

Archery  
Arts  
Canoe  
Costuming  
Enameling  
Gymnastics  
Rock Wall  
Ropes Course  
Tennis  
Waterski

June to August. Residential.  
Enjoy our website.  
Apply online.  
Tripp Lake Camp 207-998-4347  
www.tripplelakecamp.com

Meet your fellow tech staff.  
(aka, your new 3 a.m. pset support group)

**The Tech**  
Established 1881  
join@tech.mit.edu  
W20-483, 617-253-1541



## STANFORD ENVIRONMENTAL & WATER STUDIES SUMMER PROGRAM

JUNE 22 - AUGUST 15, 2015

COURSES	Smart Cities & Communities	Science & Engineering Problem Solving with MatLab
	Energy Resources: Fuels and Tools	Water Resources Management
Environmental Science & Technology	Environmental Entrepreneurship & Innovation	New Indicators of Well-Being & Sustainability
Foundations of Water Science & Engineering	Instrumental Analysis of Emerging Contaminants in the Environment	Issues in Environmental Engineering, Science & Sustainability



**Stanford**

Course enrollment starts  
**April 12, 2015**

Interested? Visit our website for course and admission details at  
ewsummer.stanford.edu

Bose is pleased to offer special savings for all students, employees and retirees of **M.I.T.**



Call now to receive savings on most Bose® products, from complete home entertainment systems to solutions for today's most popular portable music devices.

### SoundLink® Mini Bluetooth® speaker

Full, natural sound from an ultra-compact speaker that fits in the palm of your hand. Colored covers available: Blue, Red, Mint, Green, Orange, Gray and Pink.



### Audio headphones

Bose sound quality that fits your music – and your style. In a variety of colors. With inline mics for phone calls.



Please direct all inquiries to the “M.I.T. Purchase Program.”

1-800-298-BOSE  
(2673)

**BOSE**  
Better sound through research

©2014 Bose Corporation. Delivery is subject to product availability.  
The two-tone swirl headphone cord is a registered trademark of Bose Corporation. CC014869

The Tech is looking for **interactive graphic designers** to join its online media team.

No experience necessary. We'll give you the tools to get you started.

This is a great way to gain valuable job experience, build a strong web portfolio, and create designs that will be submitted for national awards.

For more information, email join@tech.mit.edu

# Men's lacrosse tops Coast Guard 14-6

*Sophomore scores first goal in  
opening minute of new season*

# Women's lacrosse suffers first defeat

*Engineers come up short against Springfield College in 16-9 loss*

Traub led MIT with three goals and an assist, while Stolzenberg had one goal and four assists for the Engineers, who outshot Coast Guard 38-31. Cook, Davis, Orrson and Turley all scored twice for the Engineers. Hathcock and McKenna each had two goals to lead Coast Guard. In goal, freshman Kurt Caminske made 14 stops for the Bears, while Eric Bartell '16 kept eight shots from going in for MIT.



**Christopher S. Cook '15 scores a diving goal** against the University of Massachusetts Dartmouth on Tuesday night. The Engineers won the game 9-5.

# Fencer wins Elite 89 Award

*Benjamin Lin '17 becomes second in row to win prize for athletic and academic performance*

Carrying a 5.0 GPA, Benjamin Lin '17 was presented with the NCAA Elite 89 Award at the NCAA Fencing National Championship held this weekend at Ohio State. He is the second consecutive fencer to receive this accolade after Joey Rafidi '14 was tabbed for this honor last

The Elite 89, an award founded by the NCAA, recognizes the true essence of the student-athlete by honoring the individual who has reached the pinnacle of competition at the national championship level in his or her sport, while also achieving the highest academic standard among his or her peers. The Elite 89 is presented to the student-

In his debut at the NCAA Championship, Lin finished 23rd in the sabre competition as he recorded a 5-2 victory over Air Force and edged out teammate Tzer Wong '18, 5-4. He almost picked up wins against Notre Dame, Duke, two Penn State opponents, Columbia, and Penn but lost each bout by a score of 5-4.

